```
                        TITLE 'CP/M 3 DUMP Utility'
                        ;*****************************
                        ;*****************************
                        ;**                         **
                        ;**       D U M P           **
                        ;**                         **
                        ;**  FILE  DUMP  ROUTINE    **
                        ;**                         **
                        ;**    JULY  16  1982       **
                        ;**                         **
                        ;*****************************
                        ;*****************************
                        ;
                        ;
                        ;
0100                    ORG     100H            ;BASE OF TPA
                        ;
                        ;********************
                        ;* BDOS FUNCTIONS   *
                        ;********************
0000 =          RETURN  EQU     0               ;SYSTEM RESET
0001 =          CONIN   EQU     01              ;READ CONSOLE
0002 =          CONOUT  EQU     02              ;TYPE CHARACTER
0005 =          BDOS    EQU     05              ;DOS ENTRY POINT
0006 =          INPUT   EQU     06              ;RAW CONSOLE I/O
0009 =          PSTRING         EQU     09              ;TYPE STRING
000A =          RSTRING         EQU     10              ;READ CONNSOLE BUFFER
000B =          CHKIO   EQU     11              ;CONSOLE STATUS
000D =          RESET   EQU     13              ;RESET DISK SYSTEM
000F =          OPENF   EQU     15              ;OPEN FILE
0014 =          READF   EQU     20              ;READ BUFFER
001A =          DMAF    EQU     26              ;SET DMA ADDRESS
0023 =          FSIZE   EQU     35              ;COMPUTE FILE SIZE
002D =          ERRMODE EQU     45              ;SET ERROR MODE
0031 =          GETSCB  EQU     49              ;GET/SET SCB
006D =          CONMODE EQU     109             ;SET CONSOLE MODE
                        ;****************************
                        ;* NON GRAPHIC CHARACTERS   *
                        ;****************************
0003 =          CTRLC   EQU     03H             ;CONTROL - C (^C)
0018 =          CTRLX   EQU     018H            ;CONTROL - X (^X)
000D =          CR      EQU     0DH             ;CARRIAGE RETURN
000A =          LF      EQU     0AH             ;LINE FEED
                        ;
                        ;********************
                        ;* FCB DEFINITIONS  *
                        ;********************
005C =          FCB     EQU     5CH             ;FILE CONTROL BLOCK
0080 =          BUF     EQU     80H             ;PASSWORD BUFFER LOCATION
                        ;
                        ;******************
                        ;* BEGIN PROGRAM  *
                        ;******************
0100 C3DB03             JMP     BEGIN
                        ;
                        ;*********************************************
```

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```
                        ;* PATCH AREA, DATE, VERSION & SERIAL NUMBER *
                        ;*********************************************
0103 0000000000DW       0,0,0,0,0,0
010F 00          DB     0
0110 44554D5020DB       'DUMP VERSION 3.0'
0120 2020204455DB       '   DUMP.COM     '
0130 0000000000DW       0,0,0,0,0,0,0,0
0140 0000000000DW        0,0,0,0,0,0,0,0
0150 434F505952DB       'COPYRIGHT 1982, '
0160 4449474954DB       'DIGITAL RESEARCH'
0170 3135313238DB       '151282'                ;VERSION DATE  [DAY-MONTH-YEAR]
0176 00000000    DB     0,0,0,0                 ;PATCH BIT MAP
017A 3635343332DB       '654321'                ;SERIAL NUMBER
                        ;
                PGRAPH:                                 ;PRINT GRAPHIC CHAR. IN ACC. OR PERIOD
0180 FE7F               CPI     7FH
0182 D28A01             JNC     PPERIOD
0185 FE20               CPI     ' '
0187 D28F01             JNC     PCHAR
                        ;
                PPERIOD:                                ;PRINT PERIOD
018A 3E2E               MVI     A,'.'
018C C38F01             JMP     PCHAR
                        ;
                PCHAR:                                  ;PRINT CHAR. IN ACC. TO CONSOLE
018F E5                 PUSH    H
0190 D5                 PUSH    D
0191 C5                 PUSH    B
0192 5F                 MOV     E,A             ;VALUE IN ACC. IS PUT IN REGISTER E
0193 0E02               MVI     C,CONOUT        ;VALUE IN REGISTER E IS SENT TO CONSOLE
0195 CD0500             CALL    BDOS            ;PRINT CHARACTER
0198 C1                 POP     B
0199 D1                 POP     D
019A E1                 POP     H
019B C9                 RET
                        ;
                PNIB:                           ;PRINT NIBBLE IN LOW ACC.
019C FE0A               CPI     10
019E D2A601             JNC     PNIBH           ;JUMP IF 'A-F'
01A1 C630               ADI     '0'
01A3 C38F01             JMP     PCHAR
                        ;
                PNIBH:
01A6 C637               ADI     'A'-10
01A8 C38F01             JMP     PCHAR
                        ;
                PBYTE:                          ;PRINT BYTE IN HEX
01AB F5                 PUSH    PSW             ;SAVE COPY FOR LOW NIBBLE
01AC 1r                 RAR                     ;ROTATE HIGH NIBBLE TO LOW
01AD 1F                 RAR
01AE 1F                 RAR
01AF 1F                 RAR
01B0 E60F               ANI     0FH             ;MASK HIGH NIBBLE
01B2 CD9C01             CALL    PNIB
01B5 F1                 POP     PSW
01B6 E60F               ANI     0FH
```

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```
  113  01B8 C39C01          JMP     PNIB
  114                       ;
  115                  OPENFILE:
  116  01BB 0E0F            MVI     C,OPENF
  117  01BD 115C00          LXI     D,FCB
  118  01C0 CD0500          CALL    BDOS            ;OPEN FILE
  119  01C3 32AD04          STA     KEEPA
  120  01C6 7C              MOV     A,H
  121  01C7 FE07            CPI     07              ;CHECK PASSWORD STATUS
  122  01C9 CAD501          JZ      GETPASSWD       ;REG. H CONTAINS '7' IF PASSWORD EXISTS
  123  01CC 3AAD04          LDA     KEEPA
  124  01CF FEFF            CPI     0FFH            ;ACC.=FF IF THERE IS NO FILE FOUND
  125  01D1 CAC003          JZ      NOFILE
  126  01D4 C9              RET
  127                       ;
  128                  GETPASSWD:
  129  01D5 3AB104          LDA     TPASSWD
  130  01D8 FEFF            CPI     255             ;CHECK IF ALREADY TRIED PASSWORD
  131  01DA CAC803          JZ      WRNGPASS
  132  01DD CD1102          CALL    SPACE           ;SET PASSWORD MEMORY AREA TOO BLANKS
  133  01E0 114904          LXI     D,QUEST
  134  01E3 CDBA03          CALL    PRINT           ;PRINT QUESTION
  135  01E6 3E08            MVI     A,8             ;MAX # OF CHARACTERS ABLE TO INPUT
  136  01E8 328000          STA     BUF             ;FOR PASSWORD IS EIGHT (8)
  137  01EB 0E0A            MVI     C,RSTRING
  138  01ED 118000          LXI     D,BUF
  139  01F0 CD0500          CALL    BDOS            ;GET PASSWORD
  140  01F3 3A8100          LDA     BUF+1
  141  01F6 32BC04          STA     LEN             ;STORE LENGTH OF PASSWORD
  142  01F9 FE00            CPI     0
  143  01FB CAD103          JZ      STOP            ;IF <CR> ENTERED THEN STOP PROGRAM
  144  01FE CD1E02          CALL    CAP             ;CAP THE PASSWORD
  145  0201 118200          LXI     D,BUF+2
  146  0204 CD6602          CALL    SETDMA
  147  0207 3EFF            MVI     A,255
  148  0209 32B104          STA     TPASSWD         ;SET TRIED PASSWORD FLAG
  149  020C 3E00            MVI     A,0
  150  020E C3BB01          JMP     OPENFILE
  151                       ;
  152                  SPACE:                       ;THIS ROUTINE FILLS THE MEMORY
  153  0211 3E08            MVI     A,8             ;LOCATIONS FROM 82-89H WITH
  154  0213 218200          LXI     H,BUF+2         ;A SPACE
  155                  SPACE2:
  156  0216 3620            MVI     M,' '           ;PUT A (BLANK) INTO THE MEMORY
  157  0218 23              INX     H               ;LOCATION WHERE HL ARE POINTING
  158  0219 3D              DCR     A
  159  021A C21602          JNZ     SPACE2
  160  021D C9              RET
  161                       ;
  162                  CAP:                         ;THIS ROUTINE TAKES THE INPUTED
  163  021E 0608            MVI     B,8             ;PASSWORD AND CONVERTS IT TO
  164  0220 218200          LXI     H,BUF+2         ;UPPER-CASE LETTERS
  165                  CAP2:
  166  0223 7E              MOV     A,M             ;MOVE INTO THE ACC. WHERE THE
  167  0224 FE61            CPI     'a'             ;CURRENT HL POSITION POINTS TO
  168  0226 DA3102          JC      SKIP            ;AND IF IT IS A LOWER-CASE LETTER
```

```
  169  0229 FE7B          CPI   '{'          ;MAKE IT UPPER CASE
  170  022B D23102        JNC   SKIP
  171  022E D620          SUI   20H
  172  0230 77            MOV   M,A
  173                SKIP:
  174  0231 23            INX   H            ;INC THE POINTER TO THE NEXT LETTER
  175  0232 05            DCR   B
  176  0233 C22302        JNZ   CAP2
  177                DELCHAR:                ;THIS ROUTINE DELETES THE LAST
  178  0236 3ABC04        LDA   LEN          ;CHARACTER IN THE INPUT BECAUSE
  179  0239 C682          ADI   82H          ;AN EXTRA CHARACTER IS ADDED TO
  180  023B 32BE04        STA   LEN2         ;THE INPUT WHEN USING BDOS FUNCTION 10
  181  023E 2ABE04        LHLD  LEN2
  182  0241 3620          MVI   M,' '
  183  0243 C9            RET
  184                     ;
  185                FILLBUFF:
  186  0244 11D404        LXI   D,BUFF       ;CURRENT POSITION
  187                FILLBUFF2:
  188  0247 32AD04        STA   KEEPA
  189  024A D5            PUSH  D
  190  024B CD6602        CALL  SETDMA       ;SET DMA FOR FILE READING
  191  024E CD6C02        CALL  READBUFF     ;READ FILE AND FILL BUFF
  192  0251 3AAF04        LDA   NOREC        ;# RECORDS READ IN CURRENT LOOP
  193  0254 3C            INR   A
  194  0255 32AF04        STA   NOREC
  195  0258 FE08          CPI   8            ;CHECK IF '8' RECORDS READ IN LOOP
  196  025A CAF003        JZ    LOOP2
  197  025D D1            POP   D
  198  025E 218000        LXI   H,80H        ;80H=128(DECIMAL)= # BYTES IN 1 RECORD READ
  199  0261 19            DAD   D
  200  0262 EB            XCHG               ;CHANGES DMA = DMA+80H
  201  0263 C34702        JMP   FILLBUFF2
  202                     ;
  203                SETDMA:
  204  0266 0E1A          MVI   C,DMAF
  205  0268 CD0500        CALL  BDOS         ;SET DMA
  206  026B C9            RET
  207                     ;
  208                READBUFF:
  209  026C 0E14          MVI   C,READF
  210  026E 115C00        LXI   D,FCB
  211  0271 CD0500        CALL  BDOS         ;FILL BUFFER
  212  0274 FE00          CPI   0            ;ACC. <> 0 IF UNSUCCESSFUL
  213  0276 C8            RZ                 ;RETURN IF NOT END OF FILE
  214  0277 3AAF04        LDA   NOREC
  215  027A FE00          CPI   0            ;THIS CHECK IS NEEDED TO SEE IF
  216  027C CAD103        JZ    STOP         ;THE RECORD IS THE FIRST IN THE
  217  027F 3EFF          MVI   A,255        ;LOOP
  218  0281 32B004        STA   EOF          ;SET END OF FILE FLAG
  219  0284 C3F003        JMP   LOOP2        ;NO MORE BUFF READING
  220                     ;
  221                BREAK:
  222  0287 C5            PUSH  B
  223  0288 D5            PUSH  D            ;SEE IF CHARACTER READY
  224  0289 E5            PUSH  H            ;IF SO THEN QUIT PROGRAM
```

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```
  225  028A 0E0B          MVI   C,CHKIO       ;IF CHARACTER IS A ^C
  226  028C CD0500        CALL  BDOS          ;CHECK CONSOLE STATUS
  227  028F B7            ORA   A             ;ZERO FLAG IS SET IF NO CHARACTER
  228  0290 F5            PUSH  PSW           ;SAVE ALL REGISTERS
  229  0291 0E01          MVI   C,CONIN       ;CONSOLE IN FUNCTION
  230  0293 C40500        CNZ   BDOS          ;EAT CHARACTER IF NOT ZERO
  231  0296 F1            POP   PSW           ;RESTORE ALL REGISTERS
  232  0297 E1            POP   H
  233  0298 D1            POP   D
  234  0299 C1            POP   B
  235  029A C9            RET
  236                     ;
  237                PADDR:
  238  029B 2AA904        LHLD  ALOC          ;CURRENT DISPLAY ADDRESS
  239  029E 7C            MOV   A,H
  240  029F CDAB01        CALL  PBYTE         ;HIGH BYTE
  241  02A2 7D            MOV   A,L
  242  02A3 2AA704        LHLD  DISLOC
  243  02A6 CDAB01        CALL  PBYTE         ;LOW BYTE
  244  02A9 3E3A          MVI   A,':'
  245  02AB C38F01        JMP   PCHAR
  246                     ;
  247                PAGE$CHECK:
  248  02AE 3AB904        LDA   PAGE$ON
  249  02B1 FE00          CPI   0
  250  02B3 CCC602        CZ    PAGE$COUNT    ;IF PAGE MODE ON CALL ROUTINE
  251  02B6 C9            RET
  252                     ;
  253                CRLF:
  254  02B7 3E0D          MVI   A,CR
  255  02B9 CD8F01        CALL  PCHAR
  256  02BC 3E0A          MVI   A,LF
  257  02BE C38F01        JMP   PCHAR
  258                     ;
  259                BLANK:
  260  02C1 3E20          MVI   A,' '
  261  02C3 C38F01        JMP   PCHAR
  262                     ;
  263                PAGE$COUNT:
  264  02C6 3ABA04        LDA   PAGE$SIZE     ;RELATIVE TO ZERO
  265  02C9 5F            MOV   E,A
  266  02CA 3ABB04        LDA   COUNT         ;CURRENT NUMBER OF LINES
  267  02CD BB            CMP   E
  268  02CE CAD602        JZ    STOP$DISPLAY  ;IF XX LINES THEN STOP DISPLAY
  269  02D1 3C            INR   A
  270  02D2 32BB04        STA   COUNT         ;COUNT=COUNT+1
  271  02D5 C9            RET
  272                     ;
  273                STOP$DISPLAY:
  274  02D6 3E00          MVI   A,0
  275  02D8 32BB04        STA   COUNT         ;COUNT=0
  276  02DB 118704        LXI   D,CON$MESS
  277  02DE CDBA03        CALL  PRINT
  278                STOP$DISPLAY2:
  279  02E1 0E06          MVI   C,INPUT
  280  02E3 1EFD          MVI   E,0FDH
```

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```
 281  02E5 CD0500          CALL    BDOS
 282  02E8 FE03            CPI     CTRLC
 283  02EA CAD103          JZ      STOP
 284  02ED FE0D            CPI     CR              ;COMPARE CHARACTER WITH <CR>
 285  02EF C2E102          JNZ     STOP$DISPLAY2   ;WAIT UNTIL <CR> IS ENCOUNTERED
 286  02F2 3E18            MVI     A,CTRLX
 287  02F4 C38F01          JMP     PCHAR
 288                       ;
 289                  DISCOM:                      ;CHECK LINE FORMAT
 290  02F7 EB              XCHG
 291  02F8 2AA304          LHLD    DISMAX
 292  02FB 7D              MOV     A,L
 293  02FC 93              SUB     E
 294  02FD 6F              MOV     L,A
 295  02FE 7C              MOV     A,H
 296  02FF 9A              SBB     D
 297  0300 EB              XCHG
 298  0301 C9              RET
 299                       ;
 300                  DISPLAY:
 301  0302 2AB304          LHLD    SIZE            ;I(NOREC)X(128)]-1
 302  0305 EB              XCHG
 303  0306 21D404          LXI     H,BUFF          ;BUFFER LOCATION
 304  0309 22A704          SHLD    DISLOC
 305  030C 19              DAD     D
 306                       ;
 307                  DISPLAY2:
 308  030D 22A304          SHLD    DISMAX
 309                       ;
 310                  DISPLAY3:
 311  0310 CDAE02          CALL    PAGE$CHECK
 312  0313 CDB702          CALL    CRLF
 313  0316 CD8702          CALL    BREAK
 314  0319 C2D103          JNZ     STOP            ;IF KEY PRESSED THEN QUIT
 315  031C 2AA704          LHLD    DISLOC
 316  031F 22A504          SHLD    TDISP
 317  0322 CD9B02          CALL    PADDR           ;PRINT THE LINE ADDRESS
 318                       ;
 319                  DISPLAY4:
 320  0325 CDC102          CALL    BLANK
 321  0328 7E              MOV     A,M
 322  0329 CDAB01          CALL    PBYTE           ;PRINT BYTE
 323  032C 23              INX     H               ;INCREMENT THE CURRENT BUFFER LOCATION
 324  032D E5              PUSH    H
 325  032E 2AA904          LHLD    ALOC            ;ALOC IS CURRENT ADDRESS FOR THE DISPLAY
 326  0331 7D              MOV     A,L
 327  0332 E60F            ANI     0FH
 328  0334 FE0F            CPI     0FH             ;CHECK IF 16 BYTES PRINTED
 329  0336 23              INX     H               ;INCREMENT CURRENT DISPLAY ADDRESS
 330  0337 22A904          SHLD    ALOC            ;SAVE IT
 331  033A E1              POP     H
 332  033B C22503          JNZ     DISPLAY4        ;IF NOT THEN CONTINUE
 333                       ;
 334                  DISPLAY5:
 335  033E 22A704          SHLD    DISLOC          ;SAVE THE CURRENT PLACE
 336  0341 2AA504          LHLD    TDISP           ;LOAD CURRENT PLACE - 16
```

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```
  337  0344 EB          XCHG
  338  0345 CDC102      CALL    BLANK
  339  0348 CDC102      CALL    BLANK
  340                   ;
  341                DISPLAY6:
  342  034B 1A          LDAX    D               ;GET BYTE
  343  034C CD8001      CALL    PGRAPH          ;PRINT IF GRAPHIC CHARACTER
  344  034F 13          INX     D
  345  0350 2AA704      LHLD    DISLOC
  346  0353 7D          MOV     A,L
  347  0354 93          SUB     E
  348  0355 C24B03      JNZ     DISPLAY6
  349  0358 7C          MOV     A,H
  350  0359 92          SUB     D
  351  035A C24B03      JNZ     DISPLAY6
  352  035D 2AA704      LHLD    DISLOC
  353  0360 CDF702      CALL    DISCOM          ;END OF DISPLAY ?
  354  0363 D8          RC
  355  0364 C31003      JMP     DISPLAY3
  356                   ;
  357                PINTRO:
  358  0367 111204      LXI     D,INTROMESS
  359  036A CDBA03      CALL    PRINT
  360  036D C9          RET
  361                   ;
  362                SETMODE:                    ;THIS ROUTINE ALLOWS ERROR CODES
  363  036E 0E2D        MVI     C,ERRMODE       ;TO BE DETECTED IN THE ACC. AND
  364  0370 1EFF        MVI     E,255           ;REG. H INSTEAD OF BDOS ERROR
  365  0372 CD0500      CALL    BDOS            ;MESSAGES
  366  0375 0E6D        MVI     C,CONMODE       ;AND ALSO SETS THE CONSOLE STATUS
  367  0377 110100      LXI     D,1             ;SO THAT ONLY A ^C CAN AFFECT
  368  037A CD0500      CALL    BDOS            ;FUNCTION 11
  369  037D C9          RET
  370                   ;
  371                CHECK$PAGE:
  372  037E 0E31        MVI     C,GETSCB        ;GET/SET SCB FUNCTION
  373  0380 11B504      LXI     D,PAGE$MODE
  374  0383 CD0500      CALL    BDOS
  375  0386 FE00        CPI     0
  376  0388 C0          RNZ                     ;RETURN IF MODE IS OFF (FALSE)
  377  0389 32B904      STA     PAGE$ON         ;SET 'ON' BYTE
  378  038C 0E31        MVI     C,GETSCB
  379  038E 11B704      LXI     D,PAGE$LEN
  380  0391 CD0500      CALL    BDOS
  381  0394 3D          DCR     A
  382  0395 32BA04      STA     PAGE$SIZE       ;STORE PAGE LENGTH (RELATIVE TO ZERO)
  383  0398 C9          RET
  384                   ;
  385                CHECKFILE:
  386  0399 0E23        MVI     C,FSIZE
  387  039B 115C00      LXI     D,FCB
  388  039E CD0500      CALL    BDOS
  389  03A1 3A7D00      LDA     FCB+33
  390  03A4 FE00        CPI     0
  391  03A6 C0          RNZ
  392  03A7 116D04      LXI     D,NORECMESS
```

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```
 393  03AA CDBA03          CALL    PRINT
 394  03AD C3D103          JMP     STOP
 395                       ;
 396                  CHNGSIZE:                ;IF ODD NUMBER OF RECORDS READ
 397  03B0 32AD04          STA     KEEPA       ;THIS ROUTINE ADDS 128 OR
 398  03B3 3E80            MVI     A,80H       ;80H TO THE DISPLAY SIZE
 399  03B5 6F              MOV     L,A         ;BECAUSE THE ACC. CANNOT DEAL
 400  03B6 3AAD04          LDA     KEEPA       ;WITH DECIMALS
 401  03B9 C9              RET
 402                       ;
 403                  PRINT:                   ;PRINTS THE STRING WHERE
 404  03BA 0E09            MVI     C,PSTRING   ;DE ARE POINTING TO
 405  03BC CD0500          CALL    BDOS
 406  03BF C9              RET
 407                       ;
 408                  NOFILE:
 409  03C0 0E09            MVI     C,PSTRING
 410  03C2 112F04          LXI     D,NOFMESS
 411  03C5 CD0500          CALL    BDOS        ;PRINT 'FILE NOT FOUND'
 412  03C8 C3D103          JMP     STOP
 413                       ;
 414                  WRNGPASS:
 415  03CB 115C04          LXI     D,BADPASS
 416  03CE CDBA03          CALL    PRINT       ;PRINT 'FALSE PASSWORD'
 417                       ;
 418                  STOP:                    ;STOP PROGRAM EXECUTION
 419  03D1 0E0D            MVI     C,RESET
 420  03D3 CD0500          CALL    BDOS
 421  03D6 0E00            MVI     C,RETURN
 422  03D8 CD0500          CALL    BDOS
 423                       ;
 424                  BEGIN:
 425  03DB 31D204          LXI     SP,STACK
 426  03DE CD6703          CALL    PINTRO      ;PRINT THE INTRO
 427  03E1 CD6E03          CALL    SETMODE     ;SET ERROR MODE
 428  03E4 CD7E03          CALL    CHECK$PAGE  ;CHECK CONSOLE PAGE MODE
 429  03E7 CDBB01           CALL   OPENFILE    ;OPEN THE FILE
 430  03EA CD9903          CALL    CHECKFILE   ;CHECK IF REANY RECORDS EXIST
 431                       ;
 432                  LOOP:
 433  03ED C34402          JMP     FILLBUFF    ;FILL THE BUFFER(S)
 434                  LOOP2:
 435  03F0 2E00            MVI     L,0         ;SET L = 0
 436  03F2 3AAF04          LDA     NOREC       ;NOREC IS SET BY FILLBUFF ROUTINE
 437  03F5 1F              RAR                 ;(X128) OR (/2)
 438  03F6 DCB003          CC      CHNGSIZE    ;IF ODD # RECORDS READ THEN CALL THIS ROUTINE
 439  03F9 67              MOV     H,A
 440  03FA 2B              DCX     H
 441  03FB 22B304          SHLD    SIZE        ;NUMBER OF BYTES TO DISPLAY
 442  03FE D1              POP     D
 443  03FF CD0203          CALL    DISPLAY     ;CALL DISPLAY ROUTINE
 444  0402 3AB004          LDA     EOF
 445  0405 FEFF            CPI     255
 446  0407 CAD103          JZ      STOP        ;JUMP IF END OF FILE
 447  040A 3E00            MVI     A,0
 448  040C 32AF04          STA     NOREC       ;RESET # RECORDS READ TO 0
```

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```
040F C3ED03          JMP     LOOP
                     ;
                     ;*****************************
                     ;* CONSOLE MESSAGES TO USER *
                     ;*****************************
0412 0D0A0A4350INTROMESS:    DB CR,LF,LF,'CP/M 3 DUMP - Version 3.0$'
042F 0D0A455252NOFMESS:      DB CR,LF,'ERROR: File Not Found',CR,LF,'$'
0449 0D0A456E74QUEST:        DB CR,LF,'Enter Password: $'
045C 0D0A506173BADPASS:      DB CR,LF,'Password Error$'
046D 0D0A455252NORECMESS:    DB CR,LF,'ERROR: No Records Exist$'
0487 0D0A507265CON$MESS:     DB CR,LF,'Press RETURN to continue $'
                     ;
                     ;*****************************
                     ;* VARIABLE AND STORAGE AREA *
                     ;*****************************
04A3          DISMAX:              DS 2          ;MAX.# REFERENCE
04A5          TDISP:       DS 2          ;CURRENT BUFFER LOCATION (FOR ASCII)
04A7          DISLOC:      DS 2          ;CURRENT BUFFER LOOCATION
04A9 0000     ALOC:        DW 0          ;LINE ADDRESS
04AB          PLOC:        DS 2          ;CURRENT BUFFER LOCATION STORAGE
04AD          KEEPA:       DS 2          ;STORAGE FOR ACC.
04AF 00       NOREC:       DB 0          ;# OF RECORDS READ IN CERTAIN LOOP (1-8)
04B0 00       EOF:         DB 0          ;END OF FILE FLAG
04B1 0000     TPASSWD:     DW 0          ;TRIED PASSWORD FLAG
04B3 0000     SIZE:        DW 0          ;DISPLAY SIZE
04B5 2C       PAGE$MODE:   DB 02CH       ;PAGE MODE OFFSET RELATIVE TO SCB
04B6 00                    DB 00H
04B7 1C       PAGE$LEN:    DB 01CH       ;PAGE LENGTH OFFSET RELATIVE TO SCB
04B8 00                    DB 00H
04B9 FF       PAGE$ON:     DB 0FFH       ;PAGE ON/OFF FLAG (0=ON)
04BA 00       PAGE$SIZE:   DB 00H        ;PAGE LENGTH RELATIVE TO ZERO
04BB 00       COUNT:       DB 0          ;LINE COUNTER
04BC 0000     LEN:         DW 0          ;PASSWORD INPUT LENGTH
04BE 0000     LEN2:        DW 0          ;EXTRA CHARACTER POINTER
04C0                       DS 12H
04D2          STACK:       DS 2
04D4          BUFF:        DS 1024       ;THE BUFFER (HOLDS UP TO 400H = 1K)
08D4          END:
```

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ALOC 04A9 238 325 330 467#
BADPASS 045C 415 457#
BDOS 0005 24# 87 118 139 205 211 226 230 281 365
368 374 380 388 405 411 420 422
BEGIN 03DB 54 424#
BLANK 02C1 259# 320 338 339
BREAK 0287 221# 313
BUF 0080 49# 136 138 140 145 154 164
BUFF 04D4 186 303 485#
CAP 021E 144 162#
CAP2 0223 165# 176
CHECKFILE 0399 385# 430
CHECKPAGE 037E 371# 428
CHKIO 000B 28# 225
CHNGSIZE 03B0 396# 438
CONIN 0001 22# 229
CONMODE 006D 36# 366
CONOUT 0002 23# 86
COUNT 04BB 266 270 275 480#
CR 000D 42# 254 284 454 455 455 456 457 458 459
CRLF 02B7 253# 312
CTRLC 0003 40# 282
CTRLX 0018 41# 286
DELCHAR 0236 177#
DISCOM 02F7 289# 353
DISLOC 04A7 242 304 315 335 345 352 466#
DISMAX 04A3 291 308 464#
DISPLAY 0302 300# 443
DISPLAY2 030D 307#
DISPLAY3 0310 310# 355
DISPLAY4 0325 319# 332
DISPLAY5 033E 334#
DISPLAY6 034B 341# 348 351
DMAF 001A 32# 204
EOF 04B0 218 444 471#
ERRMODE 002D 34# 363
FCB 005C 48# 117 210 387 389
FILLBUFF 0244 185# 433
FILLBUFF2 0247 187# 201
FSIZE 0023 33# 386
GETPASSWD 01D5 122 128#
GETSCB 0031 35# 372 378
INPUT 0006 25# 279
INTROMESS 0412 358 454#
KEEPA 04AD 119 123 188 397 400 469#
LEN 04BC 141 178 481#
LEN2 04BE 180 181 482#
LF 000A 43# 256 454 454 455 455 456 457 458 459
LOOP 03ED 432# 449
LOOP2 03F0 196 219 434#
NOFILE 03C0 125 408#
NOFMESS 042F 410 455#
NOREC 04AF 192 194 214 436 448 470#
NORECMESS 046D 392 458#
OPENF 000F 30# 116

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```
OPENFILE        01BB  115#  150   429
PADDR           029B  237#  317
PAGECHECK       02AE  247#  311
PAGECOUNT       02C6  250   263#
PAGELEN         04B7  379   476#
PAGEMODE        04B5  373   474#
PAGEON          04B9  248   377   478#
PAGESIZE        04BA  264   382   479#
PBYTE           01AB  103#  240   243   322
PCHAR           018F   75    79    81#   97   101   245   255   257   261   287
PGRAPH          0180   71#  343
PINTRO          0367  357#  426
PLOC            04AB  468#
PNIB            019C   93#  110   113
PNIBH           01A6   95    99#
PPERIOD         018A   73    77#
PRINT           03BA  134   277   359   393   403#  416
PSTRING         0009   26#  404   409
QUEST           0449  133   456#
READBUFF        026C  191   208#
READF           0014   31#  209
RESET           000D   29#  419
RETURN          0000   21#  421
RSTRING         000A   27#  137
SETDMA          0266  146   190   203#
SETMODE         036E  362#  427
SIZE            04B3  301   441   473#
SKIP            0231  168   170   173#
SPACE           0211  132   152#
SPACE2          0216  155#  159
STACK           04D2  425   484#
STOP            03D1  143   216   283   314   394   412   418#  446
STOPDISPLAY     02D6  268   273#
STOPDISPLAY2    02E1  278#  285
TDISP           04A5  316   336   465#
TPASSWD         04B1  129   148   472#
WRNGPASS        03CB  131   414#
```

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